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TI Manufacture of semi-rigid asphalt concrete at ambient temperature
IN Shen, De-Shian; Liu, Jeng-Tzung
PA Taiwan
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CC 58-2 (Cement, Concrete, and Related Building Materials)
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CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	TW 408089	ICM	C04B024-36

AB The concrete comprises **Type-I cement** 1, cation-emulsified asphalt 0.9-1.1, F-Type superplasticizer 0.03, Na CM-cellulose 0.09-0.11, CaCl₂ 0.01, fine sand/stone 0.933, coarse sand/stone 1.4 weight parts, and stone powder (as filler). Preferably, the F-Type superplasticizer is naphthalene type water reducing agent; and the Na CM-cellulose is water-dispersible polyanion. The concrete is manufactured by mixing the F-Type superplasticizer with the cation-emulsified asphalt, stirring, adding Na CM-cellulose, adding CaCl₂, adding surfactant, mixing, adding **cement** and stone powder, adding fine sand/stone, adding coarse sand/stone, and mixing. The concrete structure and construction machinery are also claimed.

ST semi rigid asphalt concrete manuf ambient temp; sodium CM cellulose sand stone asphalt concrete; **cement** superplasticizer calcium chloride asphalt concrete; water reducing agent asphalt concrete